

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2007/057036

### A. CLASSIFICATION OF SUBJECT MATTER

C12N15/09(2006.01)i, A61K39/395(2006.01)i, C07K16/00(2006.01)i, C12N1/15(2006.01)i, C12N1/19(2006.01)i, C12N1/21(2006.01)i, C12N5/10(2006.01)i, C12P21/08(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C12N15/09, A61K39/395, C07K16/00, C12N1/15, C12N1/19, C12N1/21, C12N5/10, C12P21/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

|                           |           |                            |           |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho       | 1922-1996 | Jitsuyo Shinan Toroku Koho | 1996-2007 |
| Kokai Jitsuyo Shinan Koho | 1971-2007 | Toroku Jitsuyo Shinan Koho | 1994-2007 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS/WPI (DIALOG), GenBank/EMBL/DDBJ/GeneSeq, SwissProt/PIR/GenSeq, PubMed, JSTPlus (JDream2)

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y         | KHAWLI L.A. et al., Improved tumor localization and radioimaging with chemically modified monoclonal antibodies., Cancer Biothr. Radiopharm., 1996, Vol.11, No.3, p.203-215  | 1-28                  |
| Y         | YAMASAKI Y. et al., Pharmacokinetic analysis of in vivo disposition of succinylated proteins targeted to liver nonparenchymal cells via scavenger receptors: importance of molecular size and negative charge density for in vivo recognition by receptors., J.Pharmacol.Exp.Ther., 2002, Vol.301, No.2, p.467-477 | 1-28                  |

Further documents are listed in the continuation of Box C.

See patent family annex.

|   |  |
|---|--|
| * Special categories of cited documents:  |  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "E" earlier application or patent but published on or after the international filing date   | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means  | "&" document member of the same patent family  |
| "P" document published prior to the international filing date but later than the priority date claimed  |  |

Date of the actual completion of the international search  
13 April, 2007 (13.04.07)

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01 May, 2007 (01.05.07)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Faxsimile No.

Telephone No.

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PCT/JP2007/057036

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| Y         | TEN KATE C.I. et al., Effect of isoelectric point on biodistribution and inflammation: imaging with indium-111-labelled IgG., Eur.J.Nucl.Med., 1990, Vol.17, No.6-8, p.305-309 (abstract) Database BIOSIS PREVIEWS[online], [retrieved on 13 April 2007] Retrieved from: Dialog Information Services, Biosis no.199191074220. | 1-28                  |
| Y         | DEL RIO G. et al., Effect of An engineered penicillin acylase with altered surface charge is more stable in alkaline pH., Ann.N Y Acad.Sci., 1996, Vol.799, p.61-64   | 1-28                  |
| Y         | ONDA M. et al., Lowering the Isoelectric Point of the Fv Portion of Recombinant Immunotoxins Leads to Decreased Nonspecific Animal Toxicity without Affecting Antitumor Activity., Cancer Res., 2001, Vol.61, No.13, p.5070-5077  | 1-28                  |
| Y         | WO 1998/03546 A1 (AMGEN Inc.),<br>29 January, 1998 (29.01.98),<br>Claim 1<br>& EP 938499 A1 & US 2001/0027179 A1  | 1-28                  |
| A         | GHTIE V. et al., FcRn:the MHC class I-related receptor that is more than IgG transporter., Immunol.Today, 1997, Vol.18, No.12, p.592-598  | 1-28                  |